

DSLR Guru

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VIDEOS

Paul Debevec Animates A Photo-Real Digital Face



By David B

On Mar 25, 2019



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At TEDxUSC, computer graphics trailblazer Paul Debevec explains the scene-stealing technology behind Digital Emily, a digitally constructed human face so realistic it stands up to multiple takes.

TEDTalks is a daily video podcast of the best talks and performances from the TED Conference, where the world's leading thinkers and doers give the talk of their lives in 18 minutes. Featured speakers have included Al Gore on climate change, Philippe Starck on design, Jill Bolte Taylor on observing her own stroke, Nicholas Negroponte on One Laptop per Child, Jane Goodall on chimpanzees, Bill Gates on malaria and mosquitoes, Pattie Maes on the "Sixth Sense" wearable tech, and "Lost" producer JJ Abrams on the allure of mystery. TED stands for Technology, Entertainment, Design, and TEDTalks cover these topics as well as science, business, development and the arts. Closed captions and translated subtitles in a variety of languages are now available on TED.com, at Watch a highlight reel of the Top 10 TEDTalks at

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David B

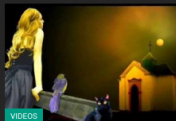
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A initially learned photography as a kid shooting black & white then developing the photos in a dark room, that was a magical time and sparked my interest in photography. As I got older I dabbled in digital photography but wasn't until my kids were born that I really started to get an active interest back in it all.

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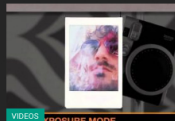
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42 COMMENTS



MarcTBG Says

It's still super creepy to me.

4 years ago

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NEZ Says

📅 4 years ago

Actually when they solve the facial animation it will be much closer. All animations seem smoothed out, you know, like they're bezier'd, and I think that facial microexpressions are more stepped, or linear with some tension. Like "Ed" from Chris Jones, I don't link it because Youtube doesn't let me 🙄

🔍 Reply



Meteotrance Says

📅 4 years ago

not a cheap process but it's work very well, maybe he should used HDR RED Camera or Blackmagic Design Cinema camera for making animated stuff, instead of Nikon or Canon photo stuff.

🔍 Reply



Stanislav G. Says

📅 4 years ago

I think that speech was underappreciated

🔍 Reply



Greg Wasdyke Says

📅 4 years ago

that's not the point.

🔍 Reply



Northfence Corner Says

📅 4 years ago

Anyone thinking AVATAR?

🔍 Reply



Albin Karlstroem Says

📅 4 years ago

8.14 two and a half men Charlie copy.

🔍 Reply



CO2Junkie Says

📅 4 years ago

It's kind of alarming. Now we won't be able to tell the difference between special effects & reality. Video can no longer be considered as proof of anything.

🔍 Reply



Shadow Says

📅 4 years ago

I concur.

🔍 Reply



B Hoo Says

📅 4 years ago

you're

🔍 Reply



Spiny Norman Says

📅 4 years ago

You know who is really going to hate this? George Lucas. NOT!

🔍 Reply



Swidhelm Says

📅 4 years ago

They weren't trying to make a realistic crowd. Just the one guy. They just for the sake of interest had two lines of them walking crossing though each other. Not a crowd sim.

🔍 Reply



NietzscheanMan Says

📅 4 years ago

You have no idea what you're talking about and confuse corporatism (made possible by socialists like yourself) with capitalism.

🔍 Reply



Muphlon Says

📅 4 years ago

I'm sorry, my what?

🔍 Reply



B Hoo Says

📅 4 years ago

your their target customer

🔍 Reply



Natalie Grant Logan Says

📅 4 years ago

great animation... but I also loved the new bmw at the end.

🔍 Reply



Gusphraba Says

📅 4 years ago

The running at the end is too smooth.

🔍 Reply



Bornearth Says

📅 4 years ago

That indeed is photorealism. She was nearly perfect. I'm not sure why they added the guy walking at the end because the combined images did not look remotely real. The put so much engery into the fine and gross detail of her face, yet did not consider the nuances of multiple people walking in the same space. Realistically, they could not all be the same height, moving exact body parts at same pace, etc.

🔍 Reply



Mirror Says

📅 4 years ago

wow.

🔍 Reply



O&A Fan Videos Says

📅 4 years ago

Those are pretty amazing diffuse and specular maps they get with that. 🙄 Very nice results.

🔍 Reply



Hoplahey Says

4 years ago

I am so looking forward to playing my game console at my retirement home in a few decades.

Should be better than real life. 🙄

Reply



Il Says

4 years ago

the future of computer graphics looks great.

Reply



William Mason Says

4 years ago

Kind of a MRI of light surfaces combined with animations.

Reply



NietzscheanMan Says

4 years ago

Shadowshorts, study some economics and stfu while you're at it.

Reply



BallinTrollin Says

4 years ago

Videogame designers should watch this vid high.

Reply



Lechiffresix Six Says

4 years ago

I know which one you are referring to but it nowhere near as realistic as this technology, they plan to recreate Winston Churchill and Hitler for historic purposes those characters will be animated. I like this clip but the fellow who is doing the presentation thinks everyone works in the 3D industry "shader, texture, colour matrices" WTF! Can't those people adapt their lingo to the audience? Not everyone uses Maya and Mocap. This video is boring for people outside of the industry.

Reply



ChariotRider Says

4 years ago

This technology could be used with another piece of software that is showcased on the Science Channel's "Future Of..." that is a database of sorts that is meant to render a real person and can be used to recreate a conversation with the real person it is trying to emulate, cool stuff!

Reply



Gothicowl Says

4 years ago

wtf is BMW doing at the end!!!

Reply



Justin Danielson Says

4 years ago

Sponsors are a necessary evil. They allow TED to keep running at the high quality we've all come to enjoy.

Reply



MonsterLopes Says

4 years ago

Sad to see something as wonderful as TED hijacked by BMW...

Can't we ever get away from the greasy fingers of business? Seems anything can be bought or sold these days, including integrity.

Reply



Princeofexcess Says

4 years ago

seen it before.

we still fall short but this is a step closer

Reply



Araless Says

4 years ago

wow. I love living in the future.

Reply



Henrik Lehnerer Says

4 years ago

cool!

Reply



Celsius233 Says

4 years ago

Wow, impressive. The only thing that really gives it away in that video is the blink.

Reply



Jussts Says

4 years ago

Yes.

Reply



KeriOwen Says

4 years ago

hmmm, so they created a photoreal digital image by...photographing a model.

Reply



RichieW Says

4 years ago

They can barely afford decent cameras these days with all the piracy...

Reply



Timabad Says

4 years ago

nice!

Reply



N3rdbear Says

4 years ago

This technology could be used to hoax news reports and interviews.

Reply



Uberzwitter Says

4 years ago

I don't see why people are so hostile to CG being improved upon. It's already used in so many ways, but we should stop advancing because your all too xenophobic? Special effects have been around since the beginning of movie making as one form or another, CG is an art in itself, and properly used is very effective...so get over yourselves. Lots of good intelligent and entertaining movies would not have been the same without it, and more will benefit from this.

Reply



Peter Cohen Says

4 years ago

Yes, we are. 😊

Reply



Hoa Do Says

4 years ago

It may not be as important but it is still a contributing factor, pushing only one boundary isn't gonna get u to perfection or similiar

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